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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/684,413	10/15/2003	Keiji Sumiya	473.43213X00	4400
20457 7	11/22/2005		EXAM	INER
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800 ARLINGTON, VA 22209-3873			GAGLIARDI, ALBERT J	
			ART UNIT	PAPER NUMBER
			2884	

DATE MAILED: 11/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Commence	10/684,413	SUMIYA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Albert J. Gagliardi	2884					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 23 Ju	ine 2004.						
,							
, _	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.							
4a) Of the above claim(s) <u>8-11</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-7</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>23 June 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 10/03,1/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:						

Application/Control Number: 10/684,413 Page 2

Art Unit: 2884

DETAILED ACTION

Claim Objections

1. Claims 8-11 are objected to under 37 CFR 1.75(c) as being in improper form because a

multiple dependent claim cannot depend from any other multiple dependent claim. See MPEP

§ 608.01(n). Accordingly, the claims 8-11 have not been further treated on the merits.

2. The examiner also notes that, in general, the claims are written in a form that is generally

narrative in nature as opposed to the more conventional form that is typically used for claims.

While the examiner notes that no specific objections are being made, the applicant should

carefully review such claims to insure they properly reflect applicant's invention.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the

subject matter which the applicant regards as his invention.

4. Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention.

Regarding independent claim 1, the claim includes a limitation of a "light-receiving

element connected to the bottom face of each scintillator cell of this multi-layer scintillator."

This limitation is unclear. The examiner notes that it appears from the description and the

drawings that the light-receiving element is connected to only the bottom face of each scintillator

cell in the bottom layer of the stack (i.e., in a 2 x 2 x 4 arrangement, only the bottom 4 of the 16

cells would be connected to the light receiving element).

Allowable Subject Matter

Application/Control Number: 10/684,413 Page 3

Art Unit: 2884

5. Claims 1-7 would be allowable if rewritten or amended to overcome the rejection(s)

under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

6. The following is a statement of reasons for the indication of allowable subject matter:

Regarding independent claim 1, as best understood, while depth of interaction detectors

comprising multi-layer scintillators obtained by coupling at least two scintillator cells on a plane

and then stacking the planar coupled scintillators are generally known in the art (see for example

Inodama et al. - "A depth of Interaction Detector for PET With GSO Crystals Doped With

Different Amounts of Ce"), the prior art does not disclose detector arrangements wherein the

detector includes means for making uniform (generally described in par. 0037 of present

application, now US Pub. 2005/0087693) the quantity of light emitted from each scintillator cell

and received by the by the light-receiving element.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Albert J. Gagliardi whose telephone number is (571) 272-2436.

The examiner can normally be reached on Monday thru Friday from 10 AM to 6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David P. Porta can be reached on (571) 272-2444. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/684,413 Page 4

Art Unit: 2884

9. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Albert J. Gagliardi Primary Examiner

Art Unit 2884

AJG